

【Claims】**【Claim 1】**

Method for making database for use in searching digital audio data files from a first recording media,

5 said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file of the directory recorded in said directory information recording area,

 said digital audio data files including file name fields which are
10 recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

 said method comprising (a) step for making directory database which is constituted by fields including name of said directory and
15 recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area;

 (b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in
20 said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said directory database;

 (c) step for recording index information as field of said file database, said index information being used as keyword when said digital

audio data file is searched.

【Claim 2】

The method according to Claim 1, wherein said index information
5 that is used as keyword when said digital audio data file is searched is
recorded in said directory information recording area of said first
recording media, and wherein said step for recording index information
includes a step for accessing the recording position of said directory
information recording area, reading said index information and recording
10 said index information as field of said file database.

【Claim 3】

The method according to Claim 1, further comprising step for
making index information database which is constituted by fields
15 including said index information and total number of files corresponding
to said index information.

【Claim 4】

Method for making database for use in searching digital audio
20 data files from first recording media and recording said database in
second recording media,

said first recording media having directory information recording
area where information regarding directory is recorded and data recording
area where file data is recorded according to information regarding sub file

of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording
5 area;

said method comprising (a) step for making directory database which is constituted by fields including name of said directory and recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording
10 area and recording said directory database in said second recording media;

(b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said
15 directory database and recording said file database in said second recording media;

(c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when said digital audio data file is searched and recording said it in said second
20 recording media.

【Claim 5】

The method according to Claim 4, wherein said index information that is used as keyword when said digital audio data file is searched is

recorded in said directory information recording area of said first
recording media, and wherein said step for recording index information
includes a step for accessing the recording position of said directory
information recording area, reading said index information, inserting said
5 index information as field of said file database to said file database and
recording said index information in said second recording media.

【Claim 6】

The method according to Claim 4, further comprising step for
10 making index information database which is constituted by fields
including said index information and total number of files corresponding
to said index information and recording said index information database in
said second recording media.

15 【Claim 7】

The method according to Claim 4, wherein said first recording
media further includes disc information recording area in which unique
information of said first recording media is recorded;

wherein said method further includes step for judging whether
20 said unique information of said first recording media read out by accessing
said disc information recording area is already recorded in said second
recording media before said step for recording directory database, said
step for recording said file database and said step for recording index
information; and

step for recording the unique information of said first recording media if the unique information of said first recording media is not recorded in said second recording media,

wherein said step for recording directory database, said step for recording file database and said step for recording index information are performed if the unique information of said first recording media is not already recorded in said second recording media.

【Claim 8】

The method according to Claim 7, wherein said step for recording directory database records said directory database in position associated with position where the unique information of said first recording media is recorded;

wherein said step for recording file database records said file database in position associated with position where the unique information of said first recording media or said directory database is recorded.

【Claim 9】

The method according to one of Claims 4 to 8, wherein said first recording media is recording media that is not re-recordable and said second recording media is recording media that is re-recordable.

【Claim 10】

Method for searching predetermined digital audio data file from a

first recording media,

said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file
5 of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

10 said method comprising (a) step for making directory database which is constituted by fields including name of said directory and recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area, and recording said directory database in said second recording

15 media;

(b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said
20 directory database, and recording said file database in said second recording media;

(c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when said digital audio data file is searched, and recording said it in said second

recording media;

(d) step for receiving input of name of digital audio data file to be searched;

(e) step for searching file having same name as said inputted
5 digital audio data to be searched from file name fields of said file database,
and reading recording position field corresponding to searched file name
field.

【Claim 11】

10 Method for searching predetermined digital audio data file from a
first recording media,

said first recording media having directory information recording
area where information regarding directory is recorded and data recording
area where file data is recorded according to information regarding sub file
15 of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are
recorded in said directory information recording area, data fields and
additional information tag field which are recorded in said data recording
area;

20 said method comprising (a) step for making directory database
which is constituted by fields including name of said directory and
recording position of said directory in said directory information recording
area, for all directories recorded in said directory information recording
area, and recording said directory database in said second recording

media;

(b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said
5 directory information recording area, for all directories recorded in said directory database, and recording said file database in said second recording media;

(c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when
10 said digital audio data file is searched, and recording said it in said second recording media;

(d) step for receiving input of name of digital audio data file to be searched;

(e) step for searching file having index information conforming to
15 said inputted index information to be searched by accessing said file database.

【Claim 12】

The method according to Claim 11, further comprising step for
20 making index information database which is constituted by field including index information total number of files corresponding to said index information, and recording said database in said second recording media,
wherein said step for searching file is continuously performed until total number of searched files conforms to total number of index

information recorded in said index information database.

【Claim 13】

Computer-readable recording media where computer-executable
5 program for making database for searching digital audio data files from
first recording media, is recorded,

said first recording media having directory information recording
area where information regarding directory is recorded and data recording
area where file data is recorded according to information regarding sub file
10 of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are
recorded in said directory information recording area, data fields and
additional information tag field which are recorded in said data recording
area;

15 said program comprising (a) step for making directory database
which is constituted by fields including name of said directory and
recording position of said directory in said directory information recording
area, for all directories recorded in said directory information recording
area;

20 (b) step for making file database which is constituted by fields
including name of sub file and position in which said sub file is recorded in
said data recording area by accessing said recording position in said
directory information recording area, for all directories recorded in said
directory database;

(c) step for recording index information as field of said file database, said index information being used as keyword when said digital audio data file is searched.

5 **【Claim 14】**

Computer-readable recording media where computer-executable program for making database for searching digital audio data files from first recording media and recording said database in second recording media, is recorded,

10 said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file of the directory recorded in said directory information recording area,

 said digital audio data files including file name fields which are
15 recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

 said program comprising (a) step for making directory database which is constituted by fields including name of said directory and
20 recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area, and recording said directory database in said second recording media;

 (b) step for making file database which is constituted by fields

including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said directory database, and recording said file database in said second

5 recording media;

(c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when said digital audio data file is searched and recording said it in said second recording media.

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【Claim 15】

Computer-readable recording media where computer-executable program for searching predetermined digital audio data files from first recording media, is recorded,

15 said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are
20 recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

said program comprising (a) step for making directory database which is constituted by fields including name of said directory and

recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area, and recording said directory database in said second recording media;

5 (b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said directory database, and recording said file database in said second
10 recording media;

 (c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when said digital audio data file is searched, and recording said it in said second recording media;

15 (d) step for receiving input of name of digital audio data file to be searched;

 (e) step for searching file having same name as said inputted digital audio data to be searched from file name fields of said file database, and reading recording position field corresponding to searched file name
20 field.

【Claim 16】

Computer-readable recording media where computer-executable program for searching predetermined digital audio data files from first

recording media, is recorded,

said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file
5 of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

10 said program comprising (a) step for making directory database which is constituted by fields including name of said directory and recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area, and recording said directory database in said second recording
15 media;

(b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said
20 directory database, and recording said file database in said second recording media;

(c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when said digital audio data file is searched, and recording said it in said second

recording media;

(d) step for receiving input of name of digital audio data file to be searched;

(e) step for searching file having index information conforming to
5 said inputted index information to be searched by accessing said file
database.